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boxes, the cockpit voice recorder and the **flight data recorder**. The tape indicates that shortly after the
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available to the pilot. The ATR 72 digital **flight data recorder**, DFDR, recorded 96 distinct parameters
[www2.aae.uiuc.edu/sis/AIAA980095.PDF](#)

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communications) or synchronously (e.g. **flight data recorder**) or on request (e.g. a surveillance
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PC will be used in place of the optical **flight data recorder** to monitor the system under test. The
[techreports.larc.nasa.gov/pub/techreports/larc/2001/tm/NASA-2001-tm211033.ps.Z](#)

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FPL N enregistreur de l'armes **flight data recorder** FPL N jeu de protecteurs boudin cabine set
[acl.ldc.upenn.edu/C/C00/C00-1022.pdf](#)

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incidents, data from the on-board Digital **Flight Data Recorder** (DFDR) has been used in conjunction with
[www.ece.utexas.edu/~jshen/paper/ja.ps.gz](#)

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cockpit voice recorder (CVR) and digital **flight data recorder** (DFDR, black box) photographs on-site
[www.rvs.uni-bielefeld.de/publications/Papers/multimod-abs.ps](#)

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analysis of the winds from FL-1016's **flight data recorder** (FDR) was provided by both McDonnell
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Glass-Box: An intelligent **flight data recorder** And real-time monitoring system Krishna
[crash1.eb.uah.edu/~kavi/Research/AIAA-39.pdf](#)

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model) Flow angle ice detection scheme. **Flight data recorder**. Networked instrument views building on
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on the left engine. In this case, the **flight data recorder** proved that the instruments were
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1 [A "flight data recorder" for enabling full-system multiprocessor deterministic replay](#)

Min Xu, Rastislav Bodik, Mark D. Hill

May 2003 **ACM SIGARCH Computer Architecture News , Proceedings of the 30th annual international symposium on Computer architecture**, Volume 31 Issue 2

Full text available: pdf(311.95 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Debuggers have been proven indispensable in improving software reliability. Unfortunately, on most real-life software, debuggers fail to deliver their most essential feature --- a faithful replay of the execution. The reason is non-determinism caused by multithreading and non-repeatable inputs. A common solution to faithful replay has been to record the non-deterministic execution. Existing recorders, however, either work only for datarace-free programs or have prohibitive overhead. As a step toward ...

2 [Flight recorders and aircraft safety](#)

Carol A. Roberts

October 1976 **Proceedings of the annual conference**

Full text available: pdf(500.60 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper discusses flight recorders, particularly the digital flight data recorder. It includes an illustration of how this device provided data to National Transportation Safety Board investigators which, for the first time, proved that wind shear was a primary factor in an air carrier accident. It also discusses the need for technological development in the area of flight recorder systems, particularly in reducing costs, and in increasing reliability and maintainability of such systems, ...

3 [Columns: Risks to the public in computers and related systems](#)

Peter G. Neumann

January 2001 **ACM SIGSOFT Software Engineering Notes**, Volume 26 Issue 1

Full text available: pdf(3.24 MB) Additional Information: [full citation](#)

4 [iWatcher: Efficient Architectural Support for Software Debugging](#)

June 2004 **Proceedings of the 31st annual international symposium on Computer architecture - Volume 00**

Full text available: pdf(314.11 KB) Additional Information: [full citation](#), [abstract](#)

[Publisher Site](#)

Recent impressive performance improvements in computer architecture have not led to significant gains in ease of debugging. Software debugging often relies on inserting run-time software checks. In many cases, however, it is hard to find the root cause of a bug. Moreover, program execution typically slows down significantly, often by 10-100 times. To address this problem, this paper introduces the Intelligent Watcher (iWatcher), novel architectural support

to monitor dynamic execution with minimal overh ...

5 Data-driven implementation of data flow diagrams

Robert G. Babb

September 1982 **Proceedings of the 6th international conference on Software engineering**

Full text available:  pdf(675.22 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Current software engineering methods employ a variety of design notations and techniques during the development process. This paper suggests a new, unified approach to developing software, termed Program/System Design. Programs are viewed as being made up of systems of data-coupled, data-activated processing units. Using a coherent hierarchy of data flow diagrams, complex systems are specified as compositions of successively simpler systems. The methods are illustrated by a Program/System s ...

Keywords: Coroutines, Data flow diagrams, Data-driven program execution, Executable specifications, Parallel processing, Programming, Requirements specification, Software project management, System design

6 Demonstrations: learning using technology: Simulation based learning environments and the use of learning histories

A. Rose, R. Salter, S. Keswani, N. Kositsyna, C. Plaisant, G. Rubloff, B. Shneiderman

April 2000 **CHI '00 extended abstracts on Human factors in computing systems**

Full text available:  pdf(304.06 KB) Additional Information: [full citation](#), [abstract](#), [references](#)


We have developed an application framework for constructing simulation-based learning environments using dynamic simulations and visualizations to represent realistic time-dependent behavior. The development environment is described and many examples are given. In particular we will focus on the learning historian which provides users and learners with a manipulatable recording of their actions which facilitates the exchange of annotated history records among peers and mentors.

Keywords: education, engineering, history, learning, simulation

7 Columns: Risks to the public in computers and related systems

Peter G. Neumann

May 2000 **ACM SIGSOFT Software Engineering Notes**, Volume 25 Issue 3

Full text available:  pdf(1.11 MB) Additional Information: [full citation](#)

8 Domain-nation

William Paul Fiefer

March 2000 **Ubiquity**, Volume 1 Issue 5

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